

UNITED STATES F ENT AND TRADEMARK OFFICE



	•				
APPLICATION NO.	FILING DA FE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/691,915	10/19/2000	Hermann Bieringer	514413-3843	7663	
20999 75	90 08/05/2003				
FROMMER LAWRENCE & HAUG 745 FIFTH AVENUE- 10TH FL. NEW YORK, NY 10151			EXAMINER		
			CLARDY, S		
	,		ART UNIT	PAPER NUMBER	
			1616	10	
			DATE MAILED: 08/05/2003	7.3	

Please find below and/or attached an Office communication concerning this application or proceeding.

Applicant(s)

Application No.

09/691,915 Applicar

Bieringer et al

Office Action Summary

Examiner

S. Mark Clardy

Art Unit 1616



	The M	IAILING DATE of this communication appears	on the cover she	eet with	the correspondence address		
Period [•]	for Reply						
		STATUTORY PERIOD FOR REPLY IS SET DATE OF THIS COMMUNICATION.	TO EXPIRE	3	_MONTH(S) FROM		
		may be available under the provisions of 37 CFR 1.136 (a). In communication.	no event, however, m	ay a reply b	e timely filed after SIX (6) MONTHS from the		
- If the position of the lift NO position of the lift	period for repl period for repl to reply with pply received b	y specified above is less than thirty (30) days, a reply within the y is specified above, the maximum statutory period will apply a in the set or extended period for reply will, by statute, cause the py the Office later than three months after the mailing date of the adjustment. See 37 CFR 1.704(b).	and will expire SIX (6) ne application to becom	MONTHS fr ne ABANDO	om the mailing date of this communication. NED (35 U.S.C. § 133).		
Status							
1) 💢	Respons	ive to communication(s) filed on May 19, 2	2003		·		
2a) 🗌	This acti	ion is FINAL . 2b) 💢 This act	ion is non-final.	•			
3) 🗆		is application is in condition for allowance en accordance with the practice under Ex pai					
Disposi	tion of Cla	aims					
4) 💢	Claim(s)	1-16, 18, and 19			is/are pending in the application.		
4	la) Of the	above, claim(s)			is/are withdrawn from consideration.		
5) 🗆	Claim(s)				is/are allowed.		
_		1-16					
7) 💢	Claim(s)	18 and 19			is/are objected to.		
8) 🗌	Claims		are	subject	to restriction and/or election requirement.		
	tion Pape						
9) 🗆	The spec	cification is objected to by the Examiner.					
10)	The drav	wing(s) filed on is/are	a) accepte	d or b)	\Box objected to by the Examiner.		
		nt may not request that any objection to the d					
11)					pproved b) \square disapproved by the Examiner.		
	If approved, corrected drawings are required in reply to this Office action.						
12)	The oath	n or declaration is objected to by the Exami	ner.				
Priority	under 35	5 U.S.C. §§ 119 and 120					
13)💢	Acknow	ledgement is made of a claim for foreign pr	ri <mark>ority under 35</mark>	U.S.C.	§ 119(a)-(d) or (f).		
a) [>	(d IIA [□ Some* c)□ None of:					
	1. 💢 Ce	rtified copies of the priority documents have	e been receive	d.			
	2. 🗆 Ce	rtified copies of the priority documents have	e been receive	d in App	lication No		
	3. □ Co	pies of the certified copies of the priority do application from the International Burea			ceived in this National Stage		
*S	ee the att	tached detailed Office action for a list of the	e certified copi	es not re	eceived.		
14)	Acknow	ledgement is made of a claim for domestic	priority under	35 U.S.(C. § 119(e).		
a) [anslation of the foreign language provisiona					
15)	Acknow	ledgement is made of a claim for domestic	priority under	35 U.S.0	C. §§ 120 and/or 121.		
Attachm				·==-			
_		ences Cited (PTO-892)			-413) Paper No(s)		
_	Notice of Draftsperson's Patent Drawing Review (PTO-948) Notice of Informal Patent Application (PTO-152) Information Disclosure Statement(s) (PTO-1449) Paper No(s)						
31 [] IM	OTHERON DISC	Avadro otatamont(a) (i ro: i + +o) i apoi ito(a),	o, o.no				

Page 2

Application/Control Number: 09/691,915

Art Unit:

1616

Claims 1-16, 18, and 19 are pending; claims 6, 7, and 10-13 have been held withdrawn as being drawn to non-elected species in Paper No. 8.

Applicants' claims are drawn to herbicidal compositions and methods comprising:

A. A herbicide with various (hetero)cyclic groups connected by a carbonyl group:

 $Q^1 = 1,3$ -cyclohexanedione $X^1 = phenyl$ $Q^2 = pyrazole$ $X^2 = bicyclic hetero (SO₂) ring <math>Q^3 = isoxazole$ $X^3 = tricyclic hetero (SO₂) ring <math>Q^4 = isothiazole$ $Q^5 = R$ -CO-CR-

B. A second herbicidal component (see lists in claims 6-13).

Applicant's elected species comprises the following combination of active agents:

A. The triketone herbicide, Compound "A4" (p. 26)¹, wherein:

 $Q = Q^1$ 2-(1,3-cyclohexanedione)

 $X = X^1$ substituted phenyl ring

B. The "B-b" group sulfonylurea herbicide, nicosulfuron (not used in the examples).

The rejection under 35 USC 112, first paragraph, is withdrawn in response to applicants' comments.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such

¹This compound differs from the triketone herbicide sulcotrione in having -CH₂-O-CH₂-CF₃ at the 3-position of the benzoyl ring. See also US Patent 6,376,429 (Van Almsick et al) cited in applicants' response.

Application/Control Number: 09/691,915 Page 3

Art Unit:

1616

that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over any one of the following: Kamano et al (US 5,801,121), Shibata et al (EP 0 768 033), Graber et al (PCT WO 97/34486), Luff (US 6,239,070), Anderson-Taylor et al (PCT WO 97/22253), Takashima et al (EP 0 810227), or Scher et al (US 5,912,207).

Kamano et al teach the herbicidal activity of Q¹-CO-X² herbicides.

Shibata et al teach the combination of Q²-CO-X² herbicides with secondary herbicides (p. 38-45).

Graber et al teach the combination of Q³-CO-X¹ (benzoylisoxazole) herbicides with secondary herbicides (p. 6-9: dichloroacetamides, triazines, dinitroanilines).

Luff teach the combination of Q³-CO-X¹ (benzoylisoxazole) herbicides with sulfonylurea herbicides.

Anderson-Taylor et al teach the combination of Q^3 -CO- X^1 (benzoylisoxazole) herbicides with bromoxynil or ioxynil.

Takashima et al teach the combination of Q³-CO-X² (benzoylisoxazole) herbicides with secondary herbicides (p. 19, lines 43-46).

Scher et al teach the combination of Q⁵-CO-X¹ herbicides with secondary herbicides (col 8, lines 24-42).

Note that these references have not been applied in combination.

Application/Control Number: 09/691,915 Page 4

Art Unit: 1616

Thus it would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made to have combined applicants' nonelected A herbicides with secondary herbicides because the prior art teaches that several of applicants' classes of Q-CO-X herbicides may be combined with secondary herbicidal agents; further, it is *prima facie* obvious to combine herbicidal agents².

The test data for the elected species presented in the response filed October 15, 2002, demonstrates synergistic activity for the elected composition. The test data presented with the response filed May 19, 2003, presents a comparison with the species comprising the triketone of De Gennaro et al (previously cited), and demonstrates unexpectedly superior synergistic results in comparison with the synergistic composition of De Gennaro et al.

Thus, applicants have presented data which demonstrates unexpected results for the elected species, and for the class of triketone herbicides comprising Q^1 and X^1 , i.e., the benzoyl cyclohexanediones.

It is noted that the data presented to date is incommensurate with the scope of the claims.

Objective evidence of nonobviousness must be commensurate in scope with the scope of the claims.

In re Tiffin, 171 USPQ 294.

²It is *prima facie* obvious to combine two compositions each of which is taught by the prior art to be useful for the same purpose in order to form a third composition that is to be used for the very same purpose; the idea of combining them flows logically from their having been individually taught in the prior art. In re Kerkhoven, 205 USPQ 1069.

Application/Control Number: 09/691,915 Page 5

Art Unit:

1616

Claims 18 and 19 (presented in Amendment B as claims 17 and 18) are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Note that in claims 18 and 19, the terms Q' and X' have been used, rather than Q^1 and X^1 .

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103c and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a)

Any inquiry concerning this communication or earlier communications from the examiner should be directed to S. Mark Clardy whose telephone number is (703) 308-4550.

S. Mark Clardy

Primary Examiner
AU 1616

August 1, 2003